

CLAIMS:

1. A color picture display device comprising a cathode ray tube (CRT) having means (1) for generating at least two electron beams mutually different colors; a display screen (2), said screen having at least two different phosphor deposits for emitting light of different color when being hit by respective electron beams; means (3) for scanning the electron beams over the display screen (2) in a pattern of subsequent substantially parallel lines, each line being scanned in a scanning direction, an intensity of each of the electron beams being controllable by respective color component data; means for diverging landing points on the screen (2) for at least one of said beams with respect to another of the beams in a direction other than the scanning direction; and means for interpolation of color component data.
2. The display device of claim 1, wherein the means for interpolation interpolate the at least one of the color component data substantially proportionally to a shift of a landing point of a corresponding electron beam.
3. The display device of claim 1, wherein the phosphor deposits for each color are arranged along essentially parallel lines in a deposit direction, said deposit direction being different from the scanning direction, wherein the means for diverging the landing points on the screen diverges at least one of the beams substantially in the deposit direction.
4. The display device of claim 3, wherein the scanning direction and the deposit direction are substantially perpendicular.
5. The display device of claim 1, wherein means for generating at least three beams are present, and in said direction other than the scanning direction the landing points on the screen for at least two of said beams converge.
6. The display device of claim 1, wherein the landing points are diverged in dependence on the color component data.

7. A method for operation of a color picture display device comprising a shadow mask cathode ray tube (CRT) having at least two electron beams for mutually different colors, and a display screen (2), said screen having phosphor deposits for emitting light of different colors when being hit by respective electron beams, comprising the steps of:

5 scanning of the display screen by the electron beams in a pattern of subsequent, substantially parallel lines, each line being scanned in a scanning direction;

diverging landing points on the screen (2) for at least one of said beams with respect to another of the beams in a direction other than the scanning direction during said scanning;

10 controlling an intensity of each of the electron beams by respective color component data; and

interpolating the color component data in dependence on a shift of the landing points.